

Attachment A

Patent Application
Docket No. 34647-00407USPT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**RECEIVED
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Applicant(s):)
Barry O'Driscoll) Confirmation No. 3497
Serial No.: 09/447,179) Group Art Unit: 2681
Filed: November 22, 1999) Examiner: Sonny Trinh
For:)
**METHOD FOR MONITORING AUTHENTICATION PERFORMANCE IN
WIRELESS COMMUNICATION NETWORKS**

Box Non-Fee Amendment
Commissioner for Patents
Washington, D.C. 20231

CERTIFICATE OF MAILING

I hereby certify that this paper or fee is being deposited with the U.S. Postal Service as first class mail on the date indicated below and is addressed to: Box Non-Fee Amendment, Commissioner for Patents, Washington, D.C. 20231

Date: September 23, 2002

Marcy Overstreet
Signature Marcy Overstreet

Dear Sir:

AMENDMENT

In response to the Office Action dated June 21, 2002, kindly amend the above identified application for patent as follows.

In the Claims

Please cancel Claims 3, 5-12, 15-22 and 24 without prejudice.

1 1. (Amended) A method for monitoring authentication performance in a wireless
2 communication network, comprising the steps of:
3 sending [an authentication report order message] a Global Challenge Report Directive

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4 message to a mobile switching center in said wireless communication network, said [authentication
5 report order message] Global Challenge Report Directive message including at least one
6 authentication parameter;

7 determining whether an access request made to said wireless communication network is
8 authenticated based on said at least one authentication parameter; and

9 if said access request is authenticated based on said at least one authentication parameter, said
10 mobile switching center transmitting [an authentication report] a Global Challenge Report to said
11 external wireless communication network.

1 2. (Amended) The method of Claim 1, further comprising the step of said mobile switching
2 center transmitting an [acknowledgment message] Global Challenge Report Directive Response
3 message responsive to said a Global Challenge Report Directive message [authentication report order
4 message].

1 4. (Amended) The method of Claim [3] 1, wherein said Global Challenge Report Directive
2 message is formatted in accordance with an ANSI-41 protocol.

1 13. (Amended) A system for monitoring authentication performance in a wireless
2 communication network, comprising:
3 a mobile switching center associated with said wireless communication network;
4 an external network node, said external network node coupled to said mobile switching center
5 by an inter-network transmission interface;.

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6 wherein said external network node senses a Global Challenge Report Directive message
7 [means for sending an authentication report order message] to said mobile switching center, said
8 [authentication report order message] Global Challenge Report Directive message including at least
9 one authentication parameter; and

10 [means for determining] wherein said mobile switching center determines whether an access
11 request made to said wireless communication network is authenticated based on said at least one
12 authentication parameter, said mobile switching center [including means for] further transmitting [an
13 authentication report] a Global Challenge Report to said external node if said access request is
14 authenticated based on said at least one authentication parameter.

1 14. (Amended) The system of Claim 13, wherein said mobile switching center further
2 transmits [comprises means for transmitting an acknowledgment message] Global Challenge Report
3 Directive Response message responsive to said [authentication report order message] a Global
4 Challenge Report Directive message.

Please add the following new claims:

1 25. (New). A method for monitoring authentication performance in a wireless
2 communication network, comprising the steps of:

3 sending an ANSI authentication report order message to a mobile switching center in said
4 wireless communication network from an external wireless communication network, said ANSI
5 authentication report order message including at least one authentication parameter;

6 determining whether an access request made to said wireless communication network is

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7 authenticated based on said at least one authentication parameter; and
8 if said access request is authenticated based on said at least one authentication parameter, said
9 mobile switching center transmitting an ANSI-41 Authentication Status Report message to said
10 external wireless communication method.

1 26. (New) The method of Claim 25, further comprising the step of said mobile switching
2 center transmitting an acknowledgment message responsive to said authentication report order
3 message.

1 27. (New) The method of Claim 25, wherein said authentication report order message
2 comprises an ANSI-41 Registration Notification Return Result message.

1 28. (New) The method of Claim 25, wherein said authentication report order message
2 comprises an ANSI-41 Qualification Directive message.

1 29. (New) The method of Claim 25, wherein said authentication report order message
2 comprises an ANSI-41 Authentication Directive message.

1 30. (New). The method of Claim 1, wherein said wireless communication network
2 comprises an ANSI-41 network.

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REMARKS

In response to the Office Action dated June 21, 2002 the Applicant has canceled Claims 3, 5-12, 15-22 and 24, amended Claims 1-2, 13-14 and added Claims 25-30. Thus, Claims 1-2, 4, 13-14, 23 and 25-30 remain pending in the application. Reconsideration of the claims, as amended, is respectfully requested.

Claims 1-3, 13-15 and 24 were rejected under 35 U.S.C. § 102(a) as being anticipated by Chan. Claim 1 has been amended to more particularly recite sending a global challenge report directive message to a mobile switching center in said wireless communications network from an external wireless communication network and said mobile switching center transmitting a global report to said external wireless communication network. These limitations are not described by the Chan reference. The Official Action referenced Column 11 as reciting a global challenge report directive message. Applicant respectfully traverses. While references are made in Column 11 to transmission of the global challenge indicator to a mobile station, no disclosure is provided of sending a global challenge report directive message to a mobile switching center. Furthermore, nothing within the Chan reference describes said mobile switching center transmitting a global challenge report to said external wireless communication network if an access request is authenticated based on at least one authentication parameter. Therefore, the Applicant respectfully submits that Claim 1, and all claims dependent therefrom, are distinguishable from the Chan reference and a Notice of Allowance is respectfully requested.

Claim 13 has been amended to include the system having limitations similar to those described with respect to the method of Claim 1. Therefore, the Applicant respectfully submits that Claim 13,

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and all claims dependent therefrom, are distinguishable from the Chan reference and a Notice of Allowance is respectfully requested.

Claims 4-5, 7, 16-17 and 19 were rejected under 35 U.S.C. § 103(a) as being unpatentable over Chan et al. in view of Bugnon et al. Applicant respectfully submits that these claims, being dependent upon previously discussed Claims 1 and 13 are allowable for similar reasons as the Bugnon reference fails to overcome the shortcomings of Chan. A Notice of Allowance for these claims is respectfully requested.

Claims 6 and 18 were rejected under 35 U.S.C. § 103(a) as being unpatentable over Chan et al. in view of Nguyen et al. Applicant respectfully submits that these claims, being dependent upon previously discussed Claims 1 and 13, respectively, are allowable for similar reasons. A Notice of Allowance is respectfully requested.

Claims 8-11 and 20-23 were rejected under 35 U.S.C. § 103(a) as being unpatentable over Chan. Applicant respectfully submits that these claims are allowable over the art of record for reasons similar to those discussed with respect to Claims 1 and 13, as these claims are dependent from Claims 1 and 13. A Notice of Allowance is respectfully requested.

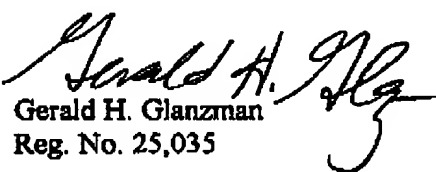
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In view of the foregoing amendments and comments, the Applicant respectfully submits that all pending Claims are allowable over the art of record and a notice of Allowance is respectfully requested.

Respectfully submitted,

Dated: September 23, 2002

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CLEAN SET OF PENDING CLAIMS AFTER RESPONSE TO OFFICE ACTION
DATED 06/21/02

1 1. (Amended) A method for monitoring authentication
2 performance in a wireless communication network, comprising
3 the steps of:

4 sending a Global Challenge Report Directive message to
5 a mobile switching center in said wireless communication
6 network, said Global Challenge Report Directive message
7 including at least one authentication parameter;

8 determining whether an access request made to said
9 wireless communication network is authenticated based on said
10 at least one authentication parameter; and

11 if said access request is authenticated based on said
12 at least one authentication parameter, said mobile switching
13 center transmitting a Global Challenge Report to said
14 external wireless communication network.

1 2. (Amended) The method of Claim 1, further comprising
2 the step of said mobile switching center transmitting an
3 Global Challenge Report Directive Response message responsive
4 to said a Global Challenge Report Directive message .

3. Canceled.

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1 4. (Amended) The method of Claim 1, wherein said
2 Global Challenge Report Directive message is formatted in
3 accordance with an ANSI-41 protocol.

5. Canceled.

6. Canceled.

7. Canceled.

8. Canceled.

9. Canceled.

10. Canceled.

11. Canceled.

12. Canceled.

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1 13. (Amended) A system for monitoring authentication
2 performance in a wireless communication network, comprising:
3 a mobile switching center associated with said wireless
4 communication network;
5 an external network node, said external network node
6 coupled to said mobile switching center by an inter-network
7 transmission interface;
8 wherein said external network node senses a Global
9 Challenge Report Directive message to said mobile switching
10 center, said Global Challenge Report Directive message
11 including at least one authentication parameter; and
12 wherein said mobile switching center determines whether
13 an access request made to said wireless communication network
14 is authenticated based on said at least one authentication
15 parameter, said mobile switching center further transmitting
16 a Global Challenge Report to said external node if said
17 access request is authenticated based on said at least one
18 authentication parameter.

1 14. (Amended) The system of Claim 13, wherein said
2 mobile switching center further transmits Global Challenge

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3 Report Directive Response message responsive to said a Global
4 Challenge Report Directive message.

15. Canceled.

16. Canceled.

17. Canceled.

18. Canceled.

19. Canceled.

20. Canceled.

21. Canceled.

22. Canceled.

1 23. The system of Claim 13, wherein said wireless
2 communication network comprises an ANSI-41 network.

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24. Canceled.

Please add the following new claims:

1 25 (New). A method for monitoring authentication
2 performance in a wireless communication network, comprising
3 the steps of:
4 sending an ANSI authentication report order message to
5 a mobile switching center in said wireless communication
6 network from an external wireless communication network, said
7 ANSI authentication report order message including at least
8 one authentication parameter;
9 determining whether an access request made to said
10 wireless communication network is authenticated based on said
11 at least one authentication parameter; and
12 if said access request is authenticated based on said
13 at least one authentication parameter, said mobile switching
14 center transmitting an ANSI-41 Authentication Status Report
15 message to said external wireless communication method.

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1 26. (New) The method of Claim 25, further comprising the
2 step of said mobile switching center transmitting an
3 acknowledgment message responsive to said authentication
4 report order message.

1 27. (New) The method of Claim 25, wherein said
2 authentication report order message comprises an ANSI-41
3 Registration Notification Return Result message.

1 28. (New) The method of Claim 25, wherein said
2 authentication report order message comprises an ANSI-41
3 Qualification Directive message.

1 29. (New) The method of Claim 25, wherein said
2 authentication report order message comprises an ANSI-41
3 Authentication Directive message.

1 30. (New) The method of Claim 1, wherein said wireless
2 communication network comprises an ANSI-41 network.